

IN THE CLAIMS

Please amend the following claims:

1. (Once amended) A gel composite comprising:

(I) one or more layers of a tear resistant, elastic [insulating] crystal gel, G_n , formed from [(I)]

(i) 100 parts by weight of at least one [or more a] linear, multi-arm, branched, or star shaped [high viscosity] block copolymer or a mixture thereof, said block copolymer having one or more substantially crystalline poly(ethylene) midblock in combination with one or more amorphous midblocks of poly(butylene), poly(ethylene-butylene), poly(ethylene-propylene) or a combination thereof, [(II)]

(ii) about 300 to about 1,600 parts by weight of a plasticizing oil; in combination with or without

(II) at least one layer of a insulating gel formed from said

(i) crystal gel, G_n , in combination with [one or more layers of said gel formed from (I) and (II) and having (III)]

(iii) a selected amount of one or more heat expandable plastic or synthetic particulates of material [forming] so as to form a homogeneous or non-homogeneous closed cell particulate crystal gel dispersion, ($G_n M_m$), wherein said crystal gel G_n having a gel rigidity of from about 20 to about 1,000 gram Bloom, said gel dispersion, ($G_n M_m$), having a gel rigidity of from 50 to about 3,000 gram Bloom, [and] said crystal gel, G_n , and said gel dispersion ($G_n M_m$), having an elongation of at least 200%, said crystal gel G_n , or crystal gel [, G_n ,] dispersion, ($G_n M_m$), capable of being formed in adhering contact with each other, another crystal gel dispersion or physically interlocked with a selected substrate material, M_n , to form one or more combinations of a crystal gel-[substrate] crystal gel dispersion, crystal gel dispersion-substrate, or crystal gel-substrate/crystal gel dispersion composites including a non-composite of a crystal gel dispersion alone, or a sequential addition or permutation of said combinations of [$G_n G_n$, $M_n G_n$, $G_n M_n G_n$, $M_n G_n M_n$, $M_n G_n G_n$, $M_n M_n G_n$, $M_n G_n G_n G_n$, $M_n M_n M_n G_n$, including $M_n G_n G_n M_n$, $G_n M_n G_n M_n$, $G_n G_n M_n G_n$, $M_n G_n M_n M_n$, $M_n G_n M_n G_n$, $G_n M_n G_n G_n$, $G_n M_n M_n G_n$, $G_n G_n M_n M_n$, $G_n G_n M_n G_n M_n$, $G_n M_n G_n M_n M_n$, $G_n M_n G_n M_n G_n$, $G_n M_n M_n G_n G_n$,

A

$G_n G_n G_n M_n M_n$, $M_n G_n G_n M_n G_n$, $M_n G_n M_n G_n M_n$, $G_n G_n M_n M_n M_n$, $G_n M_n M_n G_n M_n$, $G_n G_n G_n M_n G_n G_n$,
 $M_n G_n M_n G_n M_n G_n$, $G_n G_n M_n M_n G_n$, $G_n G_n M_n G_n M_n G_n$, $G_n M_n G_n M_n G_n M_n$, $G_n M_n M_n G_n G_n M_n$,
 $M_n G_n G_n M_n G_n M_n$, $G_n G_n M_n M_n G_n G_n$, $M_n M_n G_n G_n M_n M_n$, $M_n G_n G_n M_n G_n M_n$, $M_n G_n G_n M_n G_n G_n$,
 $G_n G_n M_n G_n G_n M_n$, $G_n M_n G_n M_n G_n$, $M_n M_n M_n G_n M_n M_n M_n$, $G](G_n M_m)$, $(G_n M_m)(G_n M_m)$, $(G_n M_m)G_n$,
 $M_n(G_n M_m)$, $M_n M_n(G_n M_m)$, $M_n G_n G_n(G_n M_m)$, $M_n M_n M_n(G_n M_m)$, including $M_n G_n(G_n M_m)$,
 $(G_n M_m)G_n M_n$, $G_n(G_n M_m)G_n$, $M_n(G_n M_m)M_n$, $M_n(G_n M_m)G_n$, $(G_n M_m)G_n G_n$, $(G_n M_m)M_n G_n$,
 $G_n(G_n M_m)G_n M_n$, $(G_n M_m)G_n M_n M_n$, $(G_n M_m)G_n M_n G_n$, $(G_n M_m)M_n G_n G_n$, $G_n G_n(G_n M_m)M_n$,
 $M_n G_n(G_n M_m)G_n$, $M_n(G_n M_m)(G_n M_m)$, $G_n(G_n M_m)M_n M_n$, $(G_n M_m)M_n(G_n M_m)$, $G_n G_n(G_n M_m)G_n G_n$,
 $M_n(G_n M_m)(G_n M_m)G_n$, $G_n(G_n M_m)M_n G_n$, $G_n(G_n M_m)(G_n M_m)G_n$, $(G_n M_m)(G_n M_m)(G_n M_m)$,
 $(G_n M_m)M_n G_n(G_n M_m)$, $M_n G_n(G_n M_m)(G_n M_m)$, $G_n(G_n M_m)M_n G_n G_n$, $M_n M_n G_n(G_n M_m)M_n$,
 $M_n G_n(G_n M_m)(G_n M_m)$, $M_n G_n(G_n M_m)G_n G_n$, $G_n(G_n M_m)G_n(G_n M_m)$, $(G_n M_m)(G_n M_m)G_n$,
 $M_n M_n M_n(G_n M_m)M_n M_n$, $M_n(G_n M_m)G_n(G_n M_m)$, $M_n(G_n M_m)(G_n M_m)M_n G_n$, $(G_n M_m)M_n(G_n M_m)M_n G_n$,
 $M_n G_n(G_n M_m)G_n(G_n M_m)$, $M_n G_n(G_n M_m)G_n(G_n M_m)$, $(G_n M_m)(G_n M_m)(G_n M_m)G_n$,
 $G_n(G_n M_m)M_n G_n(G_n M_m)M_n$, $G_n(G_n M_m)G_n(G_n M_m)G_n G_n$, $(G_n M_m)(G_n M_m)(G_n M_m)(G_n M_m)$,
 $(G_n M_m)G_n(G_n M_m)G_n(G_n M_m)G_n$, $G_n(G_n M_m)(G_n M_m)(G_n M_m)G_n G_n$, or
 $(G_n M_m)(G_n M_m)(G_n M_m)(G_n M_m)(G_n M_m)G_n$, where when n is a subscript of G, n
denotes the same or different gel rigidity; where when n is a
subscript of M, n denotes the same or different material of foam,
plastic, fabric, knit fabric, yarn knit fabric, metal, wood, glass
fiber, ceramics, synthetic resin, synthetic fibers or refractory
materials; where when m is the subscript of M, m denotes the same or
different microsphere of glass or thermoplastic resin; said composites
formed of one or more crystal gels or crystal gel dispersion of the
same or different gel rigidity and one or more substrates of the same
or different material; said crystal gels or crystal dispersion formed
with or without [(IV)]

(iv) one or more of a selected polar polymer and in
combination with or without [(V)]

(v) one or more of a selected crystalline or non-
crystalline polymer or copolymer[; said gel, said gel dispersion, or
said composites when in direct contact with a part of human skin is
capable of substantially preventing the generation of moisture from
said part of skin].

2. (Once amended) A gel according to claim 1, wherein said [(I)] (i) block copolymer is poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-propylene-styrene), poly(styrene-ethylene-styrene), poly(styrene-butylene-styrene), poly(styrene-ethylene-ethylene/butylene-styrene), poly(styrene-ethylene-ethylene/propylene-styrene), poly(styrene-butylene-ethylene/propylene-styrene), poly(styrene-butylene-ethylene/butylene-styrene), poly(styrene-ethylene-ethylene/propylene-ethylene-styrene), poly(styrene-ethylene-ethylene/butylene-butylene-styrene), poly(styrene-butylene-ethylene/propylene-butylene-styrene), poly(styrene-butylene-ethylene/butylene-butylene-styrene), poly(styrene-ethylene-butylene-ethylene/butylene-styrene), poly(styrene-ethylene-butylene-ethylene/propylene-styrene), poly(styrene-ethylene-butylene-ethylene/propylene-styrene), poly(styrene-butylene-ethylene/butylene-ethylene/propylene-styrene), poly(styrene-butylene-ethylene/propylene-ethylene/butylene-styrene), poly(styrene-ethylene-ethylene/propylene-ethylene-ethylene/butylene-styrene), poly(styrene-ethylene/propylene-butylene-ethylene/propylene-styrene), poly(styrene-butylene-ethylene/butylene-butylene-ethylene/butylene-styrene), poly(styrene-butylene-ethylene/butylene-butylene-ethylene/propylene-styrene), poly(styrene-ethylene-ethylene/butylene-butylene-ethylene/propylene-styrene), poly(styrene-ethylene-ethylene/propylene-ethylene-ethylene/propylene-ethylene-styrene), poly(styrene-butylene-ethylene/propylene-butylene-ethylene/propylene-butylene-styrene), poly(styrene-ethylene-ethylene/propylene-ethylene-ethylene/butylene-styrene), poly(styrene-ethylene-ethylene/propylene-ethylene-ethylene/propylene-ethylene-styrene), poly(styrene-ethylene-ethylene/propylene-ethylene/butylene-butylene-styrene), poly(styrene-ethylene-butylene)_n, poly(styrene-ethylene-propylene)_n, poly(styrene-ethylene)_n, poly(styrene-butylene)_n, poly(styrene-

vinyl acrylate, ethylene-vinyl alcohol, acrylonitrile-styrene-acrylate, styrene-acrylonitrile, styrene-maleic anhydride, meleated poly(styrene-ethylene-propylene-styrene), meleated poly(styrene-ethylene-butylene-styrene) or a mixture thereof.

4. (Once amended) A gel according to claim 1, wherein said selected [(V)] (v) crystalline or non-crystalline polymer or copolymer is poly(styrene-butadiene-styrene), poly(styrene-butadiene), poly(styrene-isoprene-styrene), poly(styrene-isoprene), poly(styrene-ethylene-propylene), low viscosity poly(styrene-ethylene-propylene-styrene), low viscosity poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-butylene), meleated poly(styrene-ethylene-butylene-styrene), high vinyl content poly(styrene-ethylene-butylene-styrene), poly(styrene-ethylene-propylene-styrene-ethylene-propylene), poly(ethylene-propylene), poly(styrene-butadiene)_n, poly(styrene-butadiene)_n, poly(styrene-isoprene)_n, poly(styrene-isoprene)_n, poly(styrene-ethylene-propylene)_n, low viscosity poly(styrene-ethylene-propylene)_n, low viscosity poly(styrene-ethylene-butylene)_n, poly(styrene-ethylene-butylene)_n, meleated poly(styrene-ethylene-butylene)_n, high vinyl content poly(styrene-ethylene-butylene)_n, poly(styrene-ethylene-propylene-styrene-ethylene-propylene)_n, poly(ethylene-propylene)_n, polystyrene, polybutylene, poly(ethylene-propylene), poly(ethylene-butylene), polypropylene, polyethylene, polyphthalamide or polyurethane elastomer formed from one or more saturated hydrocarbon diols, wherein said selected block copolymer is a linear, branched, multiarm, or star shaped copolymer.

5. (Once amended) A gel according to claim 1, wherein said [(I)] (i) copolymer of said gel is a thermoplastic polyurethane elastomer made with diisocyanates and chain extenders 2,2,4-trimethyl-1,3-pentanediol or 2-Butyl-2-ethyl-1,3-pentanediol and a saturated hydrocarbon diol, said polyurethane having one or more crystalline groups of about 22%

Q2
amended: to about 45% by weight of said elastomer and capable of exhibiting a glass transition of at least about -40°C.

Sub 5
D3
Q3
10. (Once amended) A cold weather sock, face mask, and body suit for protection of the body areas including the head, face, hand, fingers, nose, ears, neck, torso, back, arms, and foot against low temperatures and high wind velocities made from the gel composite of claim 1 for direct contact with the body and capable of substantially preventing the generation moisture from said body and having openings for insertion and removal of one or more hydrophilic patches in selected areas of the body covered by said suit.

R E M A R K S

The application and the material cited to date have been carefully reviewed along with Examiner's remarks in the Advisory action. After this review, Applicant is convinced that his invention as claimed is patentable. Applicant strongly believes that his claims define the invention in a clear and definite manner, and that all of the claims are allowable.

In response to the official restriction requirements and election, Applicant respectfully elects the invention of claim 10 directed to a body suit for prosecution on the merits and all claims readable thereon. In making this election, Applicant reserve the right to file one or more additional applications on the nonelected inventions.

As requested, pages 2, 4-19, 21-33, 36-38 of the specification are attached.

This response is being made within the (1) month period for response.